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Projections of the AIDS Epidemic in San Francisco: 1994-1997

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UNIVERSITY OF CALIFORNIA

Seroepidemiology and Surveillance Branch, AIDS Office

San Francisco Department of Public Health

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A. EXECUTIVE SUMMARY

This report summarizes projections of AIDS incidence and prevalence in San Francisco, California, through 1997. The report includes projections of the number of AIDS cases and the number of persons living with AIDS in San Francisco from 1994 through 1997. In addition, the report includes projections by gender, risk group and race/ethnicity.

The annual number of new AIDS cases is estimated to have peaked at 3,326 in 1992 and is expected to decline to 1,204 annually by 1997. The number of persons living with AIDS has also peaked according to these projections, and is expected to decline gradually from a high of 9,109 persons living with AIDS in 1992 to 6,460 living with AIDS by the end of 1997.

These trends reflect the dramatic reductions in new HIV infections which occurred a decade ago and which were achieved as a result of successful prevention campaigns waged in San Francisco during the past 10 years. The number of new AIDS cases are only now reflecting this change, because of the average 10-year incubation period between infection with HIV and development of AIDS. The trends are also affected by the recent expansion of the definition of AIDS, which resulted in AIDS being defined earlier in the course of HIV infection for many people. The inclusion of persons with HIV infection and a CD4+ T-lymphocyte count below 200 resulted, on average, in the diagnosis of AIDS approximately 1.5 years earlier in the course of infection. This has caused the epidemic curve to shift, resulting in an earlier and sharper peak than what would have been expected under the old case definition.

Cumulative numbers of AIDS cases, including those already deceased, are expected to increase from 18,684 currently to more than 26,700 by the end of 1997. The cumulative number of AIDS-related deaths are expected to rise to 20,273 by the end of 1997.

The projections show that there will be a decrease in the proportion of AIDS cases among gay and bisexual men and an increase in the proportion of cases among injection drug users. However, the majority of persons living with AIDS will continue to be gay and bisexual men. The number of gay and bisexual men living with AIDS is expected to decline gradually from a peak of 8,264 persons at the end of 1992 to 5,553 by the end of 1997. However, the number of heterosexual injection drug users living with AIDS is expected to increase from 571 in 1992 to 660 by the end of 1997. The number of persons in other risk groups living with AIDS is projected to decline slightly from a peak of 274 in 1992 to 247 by the end of 1997.

The number of men living with AIDS is expected to decline gradually from a peak of 8,851 at the end of 1992 to 6,183 by the end of 1997. However, the number of women living with AIDS is expected to increase from 230 in 1992 to 249 by the end of 1997.

Among those currently living with AIDS in San Francisco, 74% are white, 12% are African American, 10% are Latino, 3% Asian/Pacific Islander, and 1% are Native American. By the end of 1997, it is projected that 72% of persons living with AIDS will be white, 13% will be African American, 11% Latino, 3% Asian/Pacific Islander, and 1% Native American.

It is estimated that 28,000 men, women and children are currently living with HIV infection in San Francisco, representing almost 4% of the City's population. San Francisco has the highest number of HIV-infected persons per capita of any major city within the United States.

It is estimated that more than 1,000 San Franciscans will become newly-infected with HIV each year between 1994 and 1997. This number is down considerably from the estimated 8,000 persons who were infected during 1982, when new HIV infections were at their peak. Because of the latency period of the HIV virus, new infections in the next four years will have little impact on AIDS projections through 1997 but will impact the scope of the epidemic beyond the year 2000.

The magnitude of the HIV/AIDS epidemic in San Francisco underscores the need for effective, on-going prevention efforts within those populations at highest risk. Previous studies have indicated that comprehensive community-based prevention efforts among gay and bisexual men were primarily responsible for the dramatic reductions in the incidence of HIV infection among gay and bisexual men in the early to mid-1980s. Likewise, previous studies have suggested that comprehensive street- and community-based programs designed for injection drug users have been successful in slowing the epidemic among injection drug users in San Francisco in recent years. These and other studies suggest that prevention programs must continue to be supported in order to maintain changes in behavior and to reach new generations at risk.

These figures demonstrate the benefits of comprehensive, targeted prevention efforts, which have dramatically reduced the number of new infections with HIV and have altered the course of the AIDS epidemic in San Francisco. Despite the decline in the number of AIDS cases in San Francisco, the epidemic is expected to continue well beyond the year 2000. However, because of high rates of new infections among some populations, particularly among young gay and bisexual men and other high-risk youth, there could be a resurgence of the epidemic at some point in the future.

B. METHODS

We obtained estimates of annual HIV seroconversions for gay and bisexual men and for injection drug users by applying annual HIV seroincidence rates to estimates of population size for these groups. To project the number of persons diagnosed with AIDS under the 1987 case definition through December 31, 1992, annual HIV seroconversion estimates were combined with a log-logistic extrapolation of Kaplan-Meier estimates of progression to AIDS. Kaplan-Meier estimates were based on data from the San Francisco City Clinic Cohort study. Separate models were developed for gay and bisexual men and for injection drug users.

For persons with HIV who had not yet progressed to AIDS by December 31, 1992, we applied Markov model estimates of progression to CD4 count below 200 in order to project the theoretical number of patients who would be diagnosed under the 1993 AIDS case definition. This theoretical number was then modified, based on the assumption that only 42% of these patients would be receiving medical care and have CD4 counts available when they met the new case definition. The remaining 58% would be diagnosed later under the 1987 definition. Markov model distributions of time from CD4 count below 200 to 1987 definition AIDS were utilized to estimate this temporal lag in diagnosis.

The number of persons living with AIDS was projected using Markov model estimates of survival time following a diagnosis with either an opportunistic infection meeting the 1987 case definition or following a CD4 count below 200.

Trends in previously reported AIDS cases were used to calculate ratios of gay and bisexual men and injection drug users to other risk groups. Based on these ratios, we estimated the number of AIDS cases among other risk groups. The numbers of persons projected by risk group were then summed to obtain projections of the total number of persons with AIDS. The number of persons living with AIDS by race and ethnicity was calculated by using weighted linear extrapolations of trends in previously reported AIDS cases by race and ethnicity.

C. OVERALL PROJECTIONS FOR SAN FRANCISCO

The annual number of new AIDS cases is estimated to have peaked at 3,326 in 1992 and is expected to decline to 1,204 annually by 1997 (Table 1, Figure 1). The number of persons living with AIDS has also peaked according to these projections, and is expected to decline gradually from a high of 9,109 persons living with AIDS in 1992 to 6,460 living with AIDS by the end of 1997 (Table 1, Figure 2).

Cumulative numbers of AIDS cases, including those already deceased, are expected to increase from 18,684 currently to more than 26,700 by the end of 1997 (Table 1, Figure 3). The cumulative number of AIDS-related deaths are expected to rise to 20,273 by the end of 1997 (Table 1, Figure 4).

Table 2 and Figures 1 to 4 compare the observed and projected numbers of persons with AIDS in San Francisco from 1980 to 1993. In general, the observed and projected epidemic curves show similar trends. More uncertainty exists, however, with regard to the trends in the numbers of persons living with AIDS (Table 2, Figure 2). The observed number of persons living with AIDS may underestimate the true number of persons eligible for an AIDS diagnosis since many persons with low CD4 counts (below 200) may not access CD4 monitoring and therefore would not be included in counts of persons with AIDS. Differences between observed and projected numbers of persons with AIDS also reflects uncertainties in the projections with regard to the size of the populations at risk, the incidence of HIV infection, the proportion of persons with access to care and CD4 monitoring, the proportion of persons on therapy, and the impact of therapy on the incubation period and on survival following diagnosis.

D. PROJECTIONS BY RISK GROUP

The number of gay and bisexual men newly diagnosed with AIDS each year is projected to decline from a peak of 2,960 in 1992 to 946 in 1997 (Table 5). However, the number of injection drug users diagnosed with AIDS each year is expected to peak at 254 cases in 1992, to decline in 1993, and then to increase gradually to a level of 195 cases in 1997 (Table 8). The number of cases diagnosed among adults/adolescents in other risk groups is predicted to decline from a peak of 98 in 1992 to 54 in 1997 (Table 11). The number of infants and children diagnosed with AIDS annually is expected to peak at 14 cases in 1992 and decline to 9 cases in 1997 (Table 12).

The number of gay and bisexual men living with AIDS is expected to decline gradually from a peak of 8,264 persons at the end of 1992 to 5,553 by the end of 1997 (Table 18, Figure 5). However, the number of heterosexual injection drug users living with AIDS is expected to increase from 571 in 1992 to 660 by the end of 1997 (Table 21, Figure 5). The number of persons in other risk groups living with AIDS is projected to decline slightly from a peak of 274 in 1992 to 247 by the end of 1997 (Tables 24 and 25, Figure 5). These trends suggest that there will be a decrease in the proportion of AIDS cases among gay and bisexual men and an increase in the proportion of cases among injection drug users. However, the majority of persons living with AIDS will continue to be gay and bisexual men.

Among the 6,460 persons who are expected to be living with AIDS by the end of 1997, it is estimated that 86% will be gay and bisexual men (including gay and bisexual injection drug users), 10% will be heterosexual injection drug users, and 4% will be from other risk groups.

E. PROJECTIONS BY GENDER

The number of men diagnosed with AIDS each year is projected to decline from a peak of 3,212 in 1992 to 1,123 in 1997 (Tables 14 and 15). The number of women diagnosed with AIDS each year is expected to decline from a peak of 100 cases in 1992 to 72 in 1997 (Tables 14 and 15).

The number of men living with AIDS is expected to decline gradually from a peak of 8,851 persons at the end of 1992 to 6,183 by the end of 1997 (Table 27, Figure 6). However, the number of women living with AIDS is expected to increase from 230 in 1992 to 249 by the end of 1997 (Table 27, Figure 6).

F. PROJECTIONS BY RACE/ETHNICITY

The number of AIDS cases diagnosed each year among whites is projected to decline from a peak of 2,517 in 1992 to 847 in 1997 (Table 13). The number of people of color diagnosed with AIDS each year is also expected to decline, from a peak of 809 cases in 1992 to 357 in 1997 (Table 13).

The number of whites living with AIDS is expected to decline gradually from a peak of 6,939 at the end of 1992 to 4,632 by the end of 1997 (Table 26, Figure 7). The number of people of color living with AIDS is also projected to decline gradually, from a peak of 2,170 in 1992 to 1,828 by the end of 1997 (Table 26, Figure 7).

Among those currently living with AIDS in San Francisco, 74% are white, 12% are African American, 10% are Latino, 3% Asian/Pacific Islander, and 1% are Native American. By the end of 1997, it is projected that 72% of persons living with AIDS will be white, 13% will be African American, 11% Latino, 3% Asian/Pacific Islander, and 1% Native American.

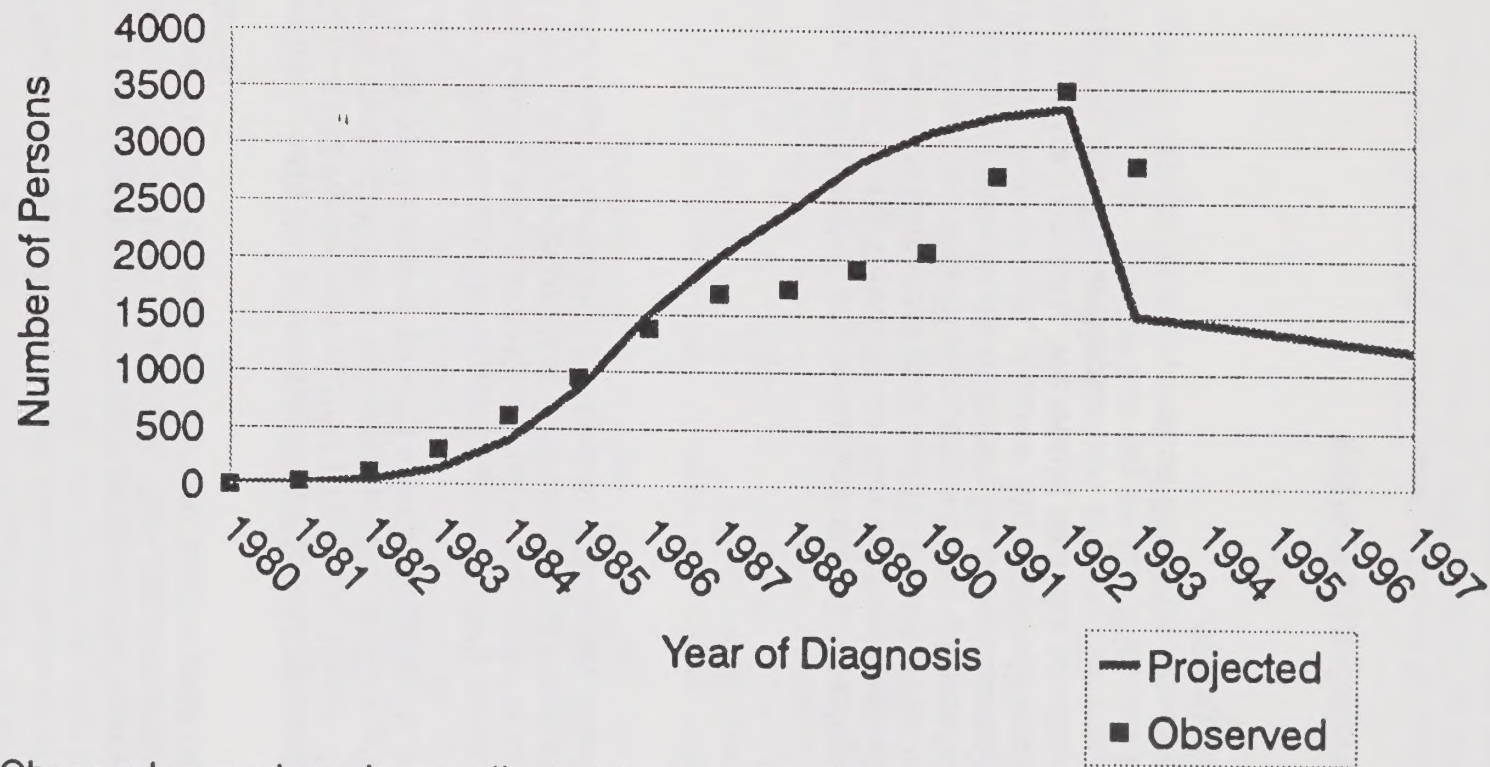
G. ACKNOWLEDGMENTS

The figures in this report are based on mathematical models developed by Anne Hirozawa, Lowell Barnhart and George Lemp of the Seroepidemiology and Surveillance Branch, AIDS Office, San Francisco Department of Public Health. The models were based on data provided by the San Francisco City Clinic Cohort Study (Nancy Hessel, Mitch Katz, AIDS Office, San Francisco Department of Public Health), researchers from the University of California (Warren Winkelstein, Andrew Moss, John Watters, Michael Samuel) and Emory University (Ira Longini). We would also like to acknowledge the contributions of David Makofsky and Susan Black.

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FIGURE 1

PROJECTED AND OBSERVED AIDS CASES BY YEAR OF DIAGNOSIS



Observed cases have been adjusted for reporting delay.

FIGURE 2

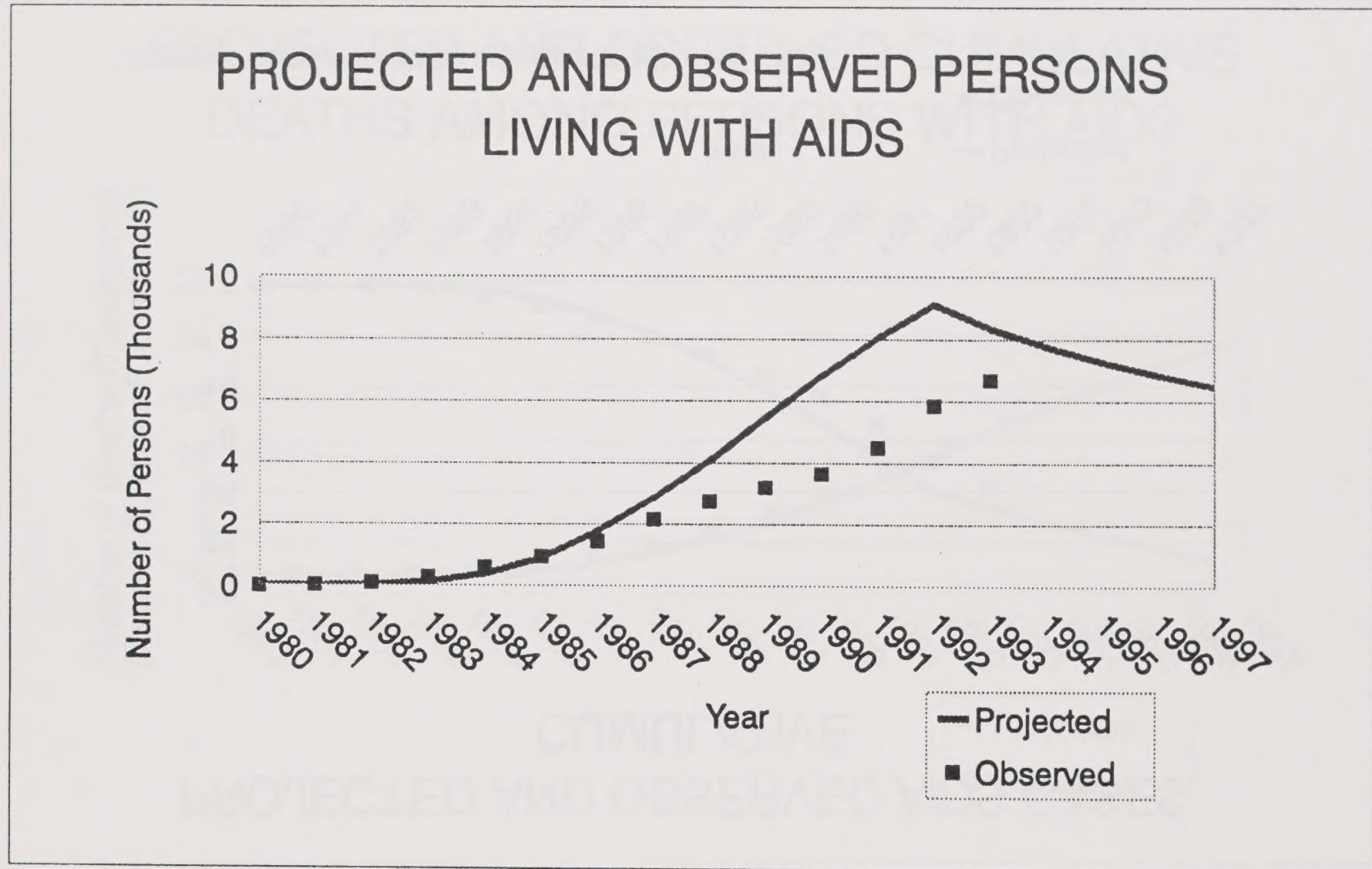
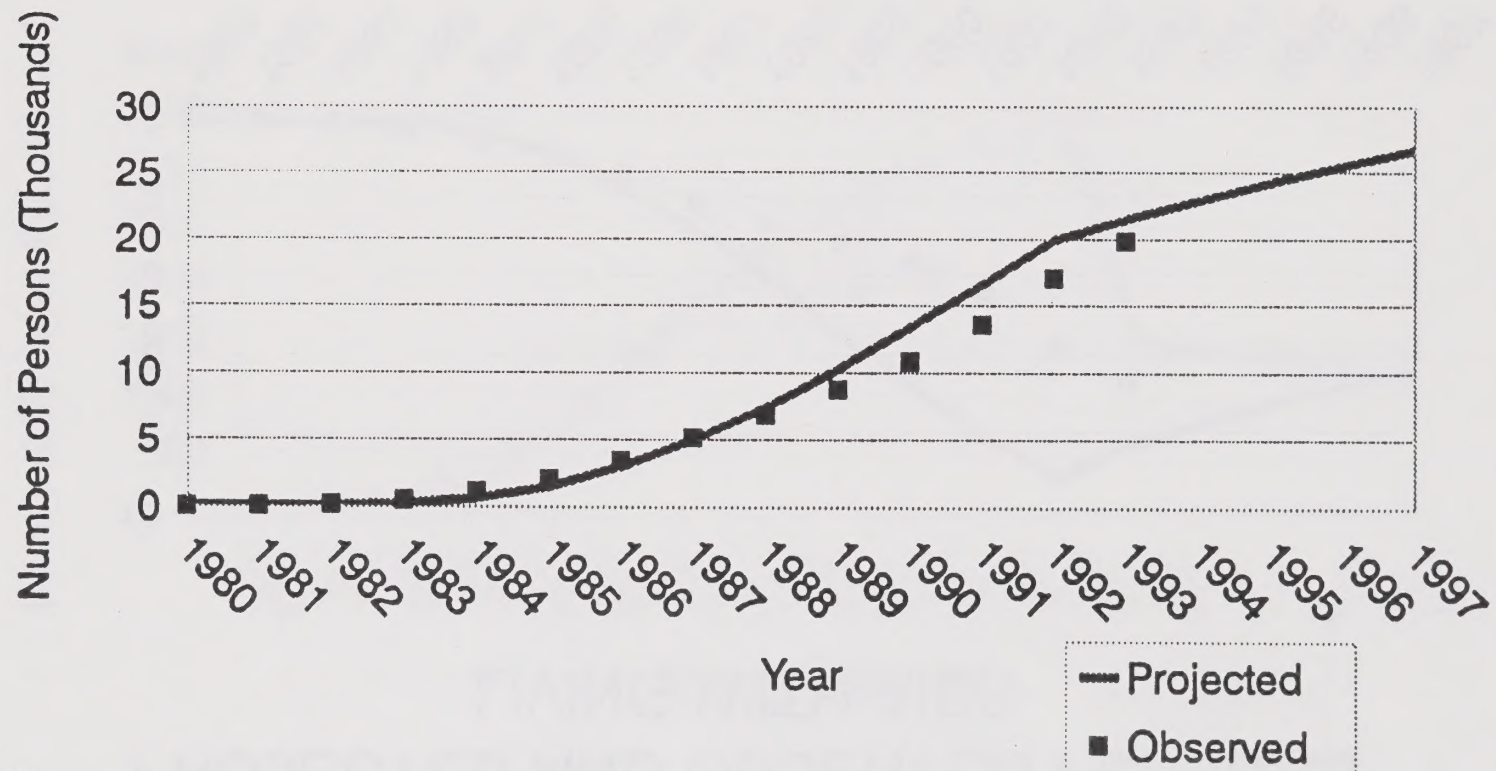


FIGURE 3

PROJECTED AND OBSERVED AIDS CASES, CUMULATIVE



Observed cases have been adjusted for reporting delay.

FIGURE 4

PROJECTED AND OBSERVED CUMULATIVE DEATHS AMONG PERSONS WITH AIDS

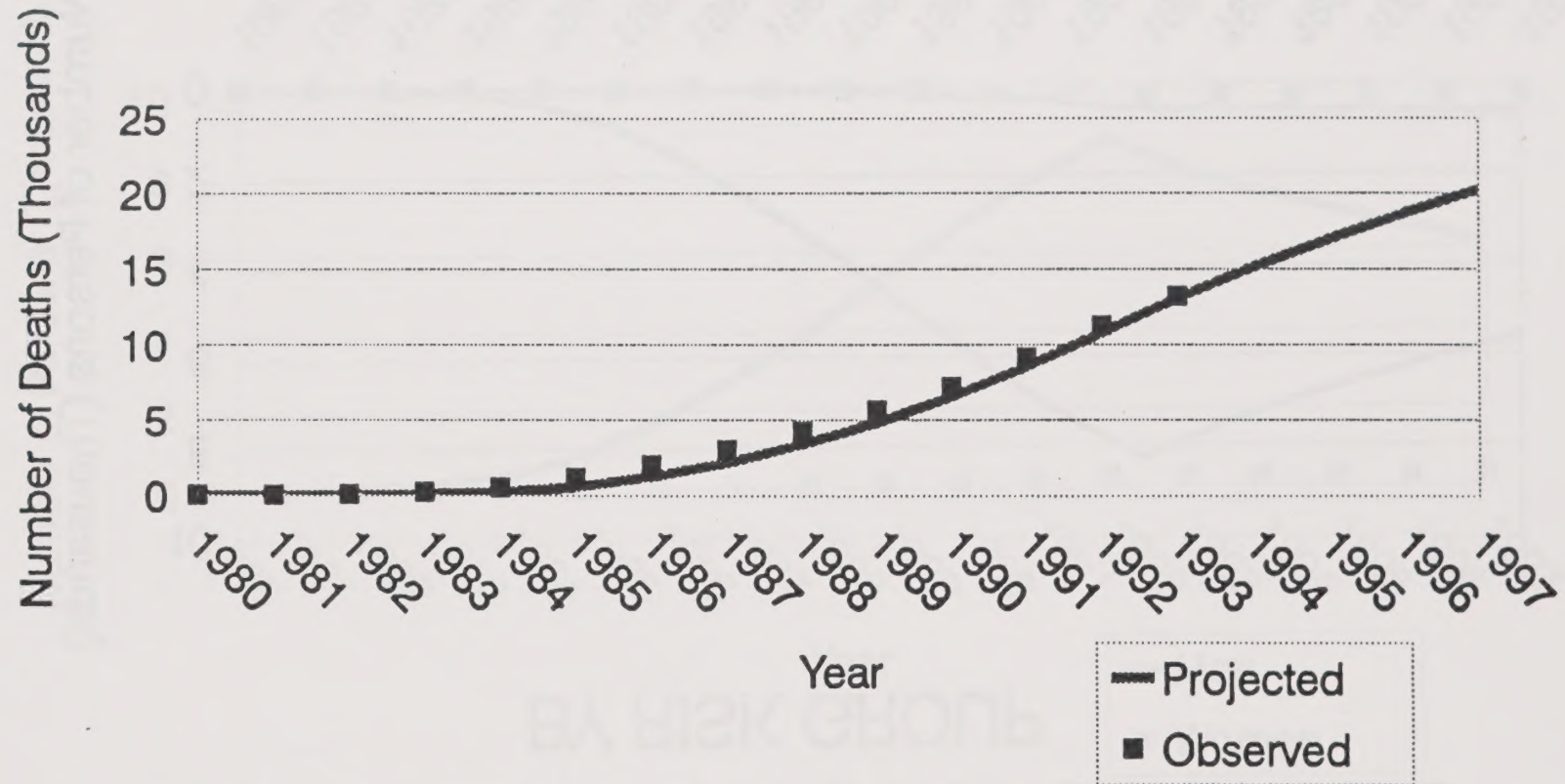


FIGURE 5

PROJECTED PERSONS LIVING WITH AIDS BY RISK GROUP

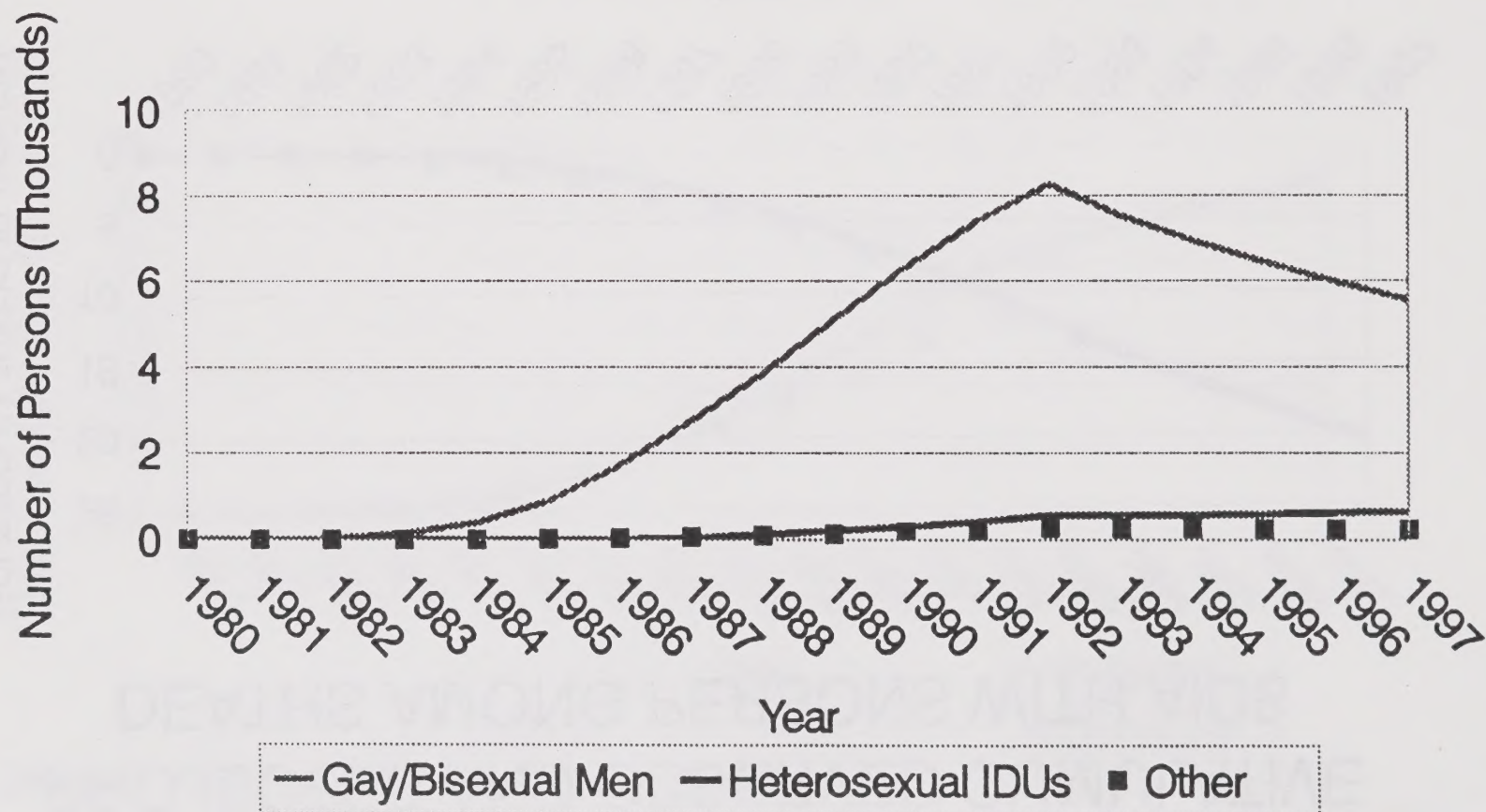


FIGURE 6

PROJECTED PERSONS LIVING WITH AIDS BY GENDER

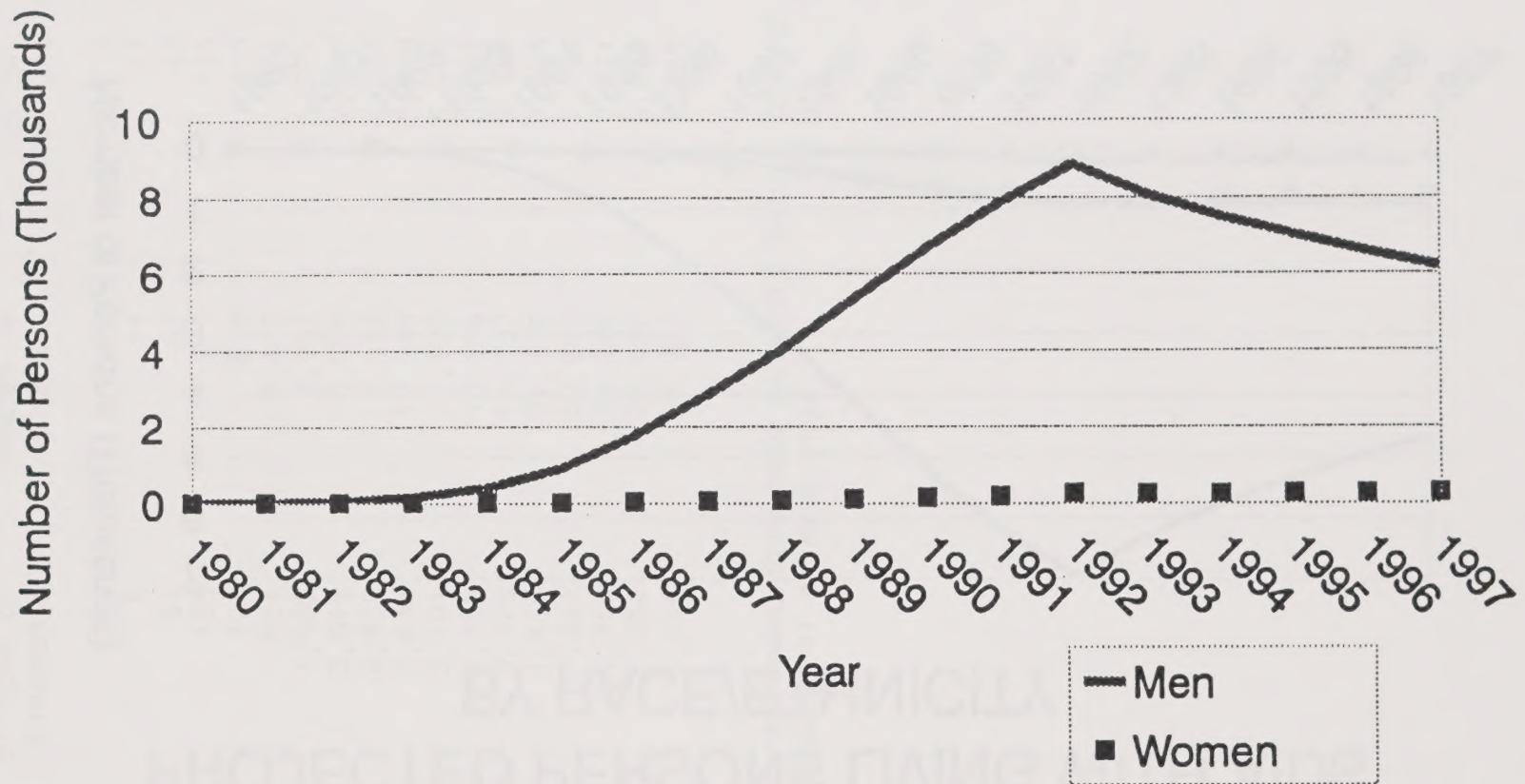


FIGURE 7

PROJECTED PERSONS LIVING WITH AIDS BY RACE/ETHNICITY

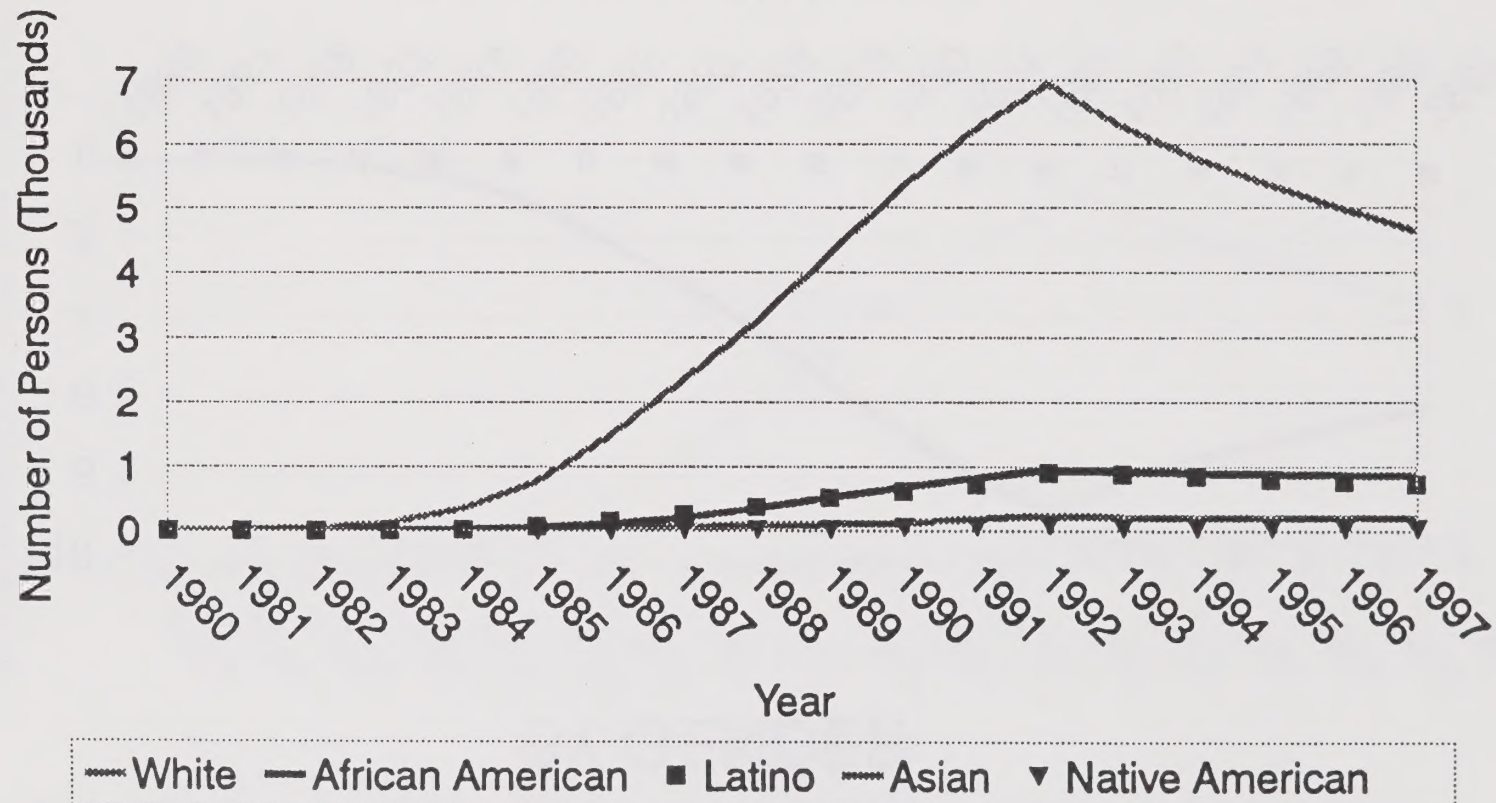


TABLE 1:

PROJECTED AIDS CASES IN SAN FRANCISCO*

YEAR	CASES BY YEAR OF DIAGNOSIS	CUMULATIVE NUMBER OF CASES	PERSONS LIVING WITH AIDS	CUMULATIVE NUMBER OF DEATHS
1980	2	2	2	0
1981	9	11	11	0
1982	51	62	43	19
1983	155	217	145	72
1984	401	618	398	220
1985	854	1,472	904	568
1986	1,509	2,981	1,771	1,210
1987	2,019	5,000	2,849	2,151
1988	2,412	7,412	4,068	3,344
1989	2,834	10,246	5,440	4,806
1990	3,104	13,350	6,806	6,544
1991	3,256	16,606	8,040	8,566
1992	3,326	19,932	9,109	10,823
1993	1,507	21,439	8,338	13,101
1994	1,441	22,880	7,752	15,128
1995	1,365	24,245	7,271	16,974
1996	1,284	25,529	6,849	18,680
1997	1,204	26,733	6,460	20,273

* Projected figures represent diagnosed patients only. Living patients as of December 31 of each year.

TABLE 2:

PROJECTED AND OBSERVED NUMBERS OF AIDS PATIENTS IN SAN FRANCISCO

YEAR	CASES BY YEAR OF DIAGNOSIS		CUMULATIVE NUMBER OF CASES		PERSONS LIVING WITH AIDS		CUMULATIVE NUMBER OF DEATHS	
	<u>PROJECTED</u>	<u>OBSERVED</u>	<u>PROJECTED</u>	<u>OBSERVED</u>	<u>PROJECTED</u>	<u>OBSERVED</u>	<u>PROJECTED</u>	<u>OBSERVED</u>
1980	2	2	2	2	2	0	0	2
1981	9	34	11	36	11	27	0	9
1982	51	115	62	151	43	105	19	46
1983	155	317	217	468	145	286	72	182
1984	401	613	618	1,081	398	590	220	491
1985	854	946	1,472	2,027	904	944	568	1,083
1986	1,509	1,384	2,981	3,411	1,771	1,426	1,210	1,985
1987	2,019	1,692	5,000	5,103	2,849	2,145	2,151	2,958
1988	2,412	1,735	7,412	6,838	4,068	2,723	3,344	4,115
1989	2,834	1,906	10,246	8,744	5,440	3,168	4,806	5,576
1990	3,104	2,069	13,350	10,813	6,806	3,625	6,544	7,188
1991	3,256	2,729	16,606	13,542	8,040	4,486	8,566	9,056
1992	3,326	3,488	19,932	17,030	9,109	5,826	10,823	11,204
1993	1,507	2,819	21,439	19,849	8,338	6,675	13,101	13,174
1994	1,441		22,880		7,752		15,128	
1995	1,365		24,245		7,271		16,974	
1996	1,284		25,529		6,849		18,680	
1997	1,204		26,733		6,460		20,273	

* Projected figures represent diagnosed patients only. Observed cases have been adjusted for reporting delay. Living persons as of December 31 of each year.

TABLE 3

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

GAY/BISEXUAL MEN: NON-IDUs												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM.		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	2	2	0	0	0	0	0	0	0	0	2	2
1981	7	9	0	0	1	1	0	0	0	0	8	10
1982	41	50	2	2	4	5	0	0	1	1	48	58
1983	113	163	6	8	10	15	1	1	1	2	131	189
1984	282	445	17	25	23	38	3	4	0	2	325	514
1985	610	1055	32	57	55	93	8	12	1	3	706	1220
1986	1074	2129	67	124	108	201	19	31	4	7	1272	2492
1987	1440	3569	94	218	148	349	30	61	9	16	1721	4213
1988	1688	5257	130	348	172	521	52	113	9	25	2051	6264
1989	1978	7235	172	520	210	731	50	163	6	31	2416	8680
1990	2149	9384	188	708	215	946	46	209	21	52	2619	11299
1991	2221	11605	195	903	227	1173	63	272	22	74	2728	14027
1992	2198	13803	195	1098	256	1429	71	343	28	102	2748	16775
1993	952	14755	100	1198	122	1551	30	373	5	107	1209	17984
1994	882	15637	99	1297	118	1669	30	403	5	112	1134	19118
1995	805	16442	95	1392	112	1781	29	432	5	117	1046	20164
1996	732	17174	92	1484	106	1887	28	460	5	122	963	21127
1997	660	17834	87	1571	99	1986	27	487	5	127	878	22005

TABLE 4

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

GAY/BISEXUAL MEN: IDUs												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	0	0	0	0	0	0	0	0	1	1
1982	3	4	0	0	0	0	0	0	0	0	3	4
1983	22	26	1	1	0	0	0	0	0	0	23	27
1984	63	89	5	6	1	1	0	0	0	0	69	96
1985	106	195	12	18	4	5	0	0	0	0	122	218
1986	152	347	16	34	10	15	2	2	1	1	181	399
1987	163	510	18	52	14	29	2	4	1	2	198	597
1988	154	664	31	83	19	48	3	7	2	4	209	806
1989	149	813	33	116	23	71	2	9	3	7	210	1016
1990	155	968	35	151	27	98	1	10	3	10	221	1237
1991	141	1109	38	189	22	120	3	13	6	16	210	1447
1992	148	1257	33	222	26	146	3	16	2	18	212	1659
1993	67	1324	10	232	13	159	1	17	2	20	93	1752
1994	62	1386	9	241	13	172	1	18	2	22	87	1839
1995	57	1443	8	249	13	185	0	18	2	24	80	1919
1996	51	1494	8	257	13	198	0	18	2	26	74	1993
1997	47	1541	7	264	12	210	0	18	2	28	68	2061

TABLE 5

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

GAY/BISEXUAL MEN: ALL												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	2	2	0	0	0	0	0	0	0	0	2	2
1981	8	10	0	0	1	1	0	0	0	0	9	11
1982	44	54	2	2	4	5	0	0	1	1	51	62
1983	135	189	7	9	10	15	1	1	1	2	154	216
1984	345	534	22	31	24	39	3	4	0	2	394	610
1985	716	1250	44	75	59	98	8	12	1	3	828	1438
1986	1226	2476	83	158	118	216	21	33	5	8	1453	2891
1987	1603	4079	112	270	162	378	32	65	10	18	1919	4810
1988	1842	5921	161	431	191	569	55	120	11	29	2260	7070
1989	2127	8048	205	636	233	802	52	172	9	38	2626	9696
1990	2304	10352	223	859	242	1044	47	219	24	62	2840	12536
1991	2362	12714	233	1092	249	1293	66	285	28	90	2938	15474
1992	2346	15060	228	1320	282	1575	74	359	30	120	2960	18434
1993	1019	16079	110	1430	135	1710	31	390	7	127	1302	19736
1994	944	17023	108	1538	131	1841	31	421	7	134	1221	20957
1995	862	17885	103	1641	125	1966	29	450	7	141	1126	22083
1996	783	18668	100	1741	119	2085	28	478	7	148	1037	23120
1997	707	19375	94	1835	111	2196	27	505	7	155	946	24066

TABLE 6

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

INJECTION DRUG USERS: HETEROSEXUAL MEN

YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	0	0	0	0	0	0	2	2
1985	2	3	4	5	2	2	0	0	0	0	8	10
1986	6	9	9	14	4	6	0	0	0	0	19	29
1987	14	23	19	33	9	15	0	0	0	0	42	71
1988	27	50	32	65	13	28	0	0	1	1	73	144
1989	38	88	44	109	21	49	0	0	0	1	103	247
1990	55	143	61	170	20	69	0	0	0	1	136	383
1991	73	216	72	242	22	91	2	2	0	1	169	552
1992	92	308	82	324	24	115	1	3	0	1	199	751
1993	56	364	45	369	13	128	1	4	0	1	115	866
1994	65	429	48	417	12	140	1	5	0	1	126	992
1995	75	504	52	469	10	150	2	7	0	1	139	1131
1996	82	586	52	521	8	158	2	9	0	1	144	1275
1997	90	676	53	574	6	164	3	12	0	1	152	1427

TABLE 7

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

10/20/97

INJECTION DRUG USERS: WOMEN												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	0	0	0	0	0	0	2	2
1986	2	3	3	4	1	1	0	0	0	0	6	8
1987	5	8	6	10	1	2	0	0	0	0	12	20
1988	7	15	10	20	2	4	1	1	0	0	20	40
1989	11	26	14	34	3	7	1	2	0	0	29	69
1990	14	40	18	52	4	11	1	3	0	0	37	106
1991	17	57	24	76	5	16	2	5	0	0	48	154
1992	21	78	27	103	5	21	2	7	0	0	55	209
1993	12	90	16	119	3	24	1	8	0	0	32	241
1994	14	104	17	136	3	27	1	9	0	0	35	276
1995	15	119	19	155	4	31	1	10	0	0	39	315
1996	16	135	20	175	4	35	1	11	0	0	41	356
1997	17	152	21	196	4	39	1	12	0	0	43	399

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

INJECTION DRUG USERS: ALL												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	0	0	0	0	0	0	2	2
1985	3	4	5	6	2	2	0	0	0	0	10	12
1986	8	12	12	18	5	7	0	0	0	0	25	37
1987	19	31	25	43	10	17	0	0	0	0	54	91
1988	34	65	42	85	15	32	1	1	1	1	93	184
1989	49	114	58	143	24	56	1	2	0	1	132	316
1990	69	183	79	222	24	80	1	3	0	1	173	489
1991	90	273	96	318	27	107	4	7	0	1	217	706
1992	113	386	109	427	29	136	3	10	0	1	254	960
1993	68	454	61	488	16	152	2	12	0	1	147	1107
1994	79	533	65	553	15	167	2	14	0	1	161	1268
1995	90	623	71	624	14	181	3	17	0	1	178	1446
1996	98	721	72	696	12	193	3	20	0	1	185	1631
1997	107	828	74	770	10	203	4	24	0	1	195	1826

TABLE 9

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

OTHER ADULTS/ADOLESCENTS: HETEROSEXUAL MEN												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	0	0	0	0	0	0	0	0	1	1
1984	2	3	1	1	1	1	0	0	0	0	4	5
1985	6	9	2	3	2	3	1	1	0	0	11	16
1986	11	20	3	6	4	7	2	3	0	0	20	36
1987	13	33	5	11	6	13	3	6	0	0	27	63
1988	16	49	6	17	7	20	4	10	0	0	33	96
1989	20	69	7	24	8	28	5	15	0	0	40	136
1990	23	92	8	32	10	38	6	21	0	0	47	183
1991	25	117	9	41	10	48	6	27	0	0	50	233
1992	27	144	9	50	11	59	6	33	0	0	53	286
1993	13	157	5	55	6	65	3	36	0	0	27	313
1994	14	171	4	59	5	70	3	39	0	0	26	339
1995	14	185	4	63	5	75	3	42	0	0	26	365
1996	14	199	4	67	5	80	3	45	0	0	26	391
1997	13	212	4	71	5	85	3	48	0	0	25	416

TABLE 10

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

OTHER ADULTS/ADOLESCENTS: WOMEN												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	0	0	0	0	0	0	0	0	1	1
1985	2	3	1	1	1	1	0	0	0	0	4	5
1986	5	8	2	3	1	2	1	1	0	0	9	14
1987	8	16	4	7	2	4	1	2	0	0	15	29
1988	10	26	5	12	3	7	2	4	0	0	20	49
1989	14	40	7	19	4	11	3	7	0	0	28	77
1990	18	58	9	28	5	16	3	10	0	0	35	112
1991	21	79	10	38	5	21	4	14	0	0	40	152
1992	24	103	11	49	6	27	4	18	0	0	45	197
1993	13	116	6	55	3	30	2	20	0	0	24	221
1994	14	130	6	61	4	34	2	22	0	0	26	247
1995	13	143	7	68	4	38	3	25	0	0	27	274
1996	14	157	7	75	4	42	3	28	0	0	28	302
1997	15	172	7	82	4	46	3	31	0	0	29	331

TABLE 11

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

OTHER ADULTS/ADOLESCENTS: ALL												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	0	0	0	0	0	0	0	0	1	1
1984	3	4	1	1	1	1	0	0	0	0	5	6
1985	8	12	3	4	3	4	1	1	0	0	15	21
1986	16	28	5	9	5	9	3	4	0	0	29	50
1987	21	49	9	18	8	17	4	8	0	0	42	92
1988	26	75	11	29	10	27	6	14	0	0	53	145
1989	34	109	14	43	12	39	8	22	0	0	68	213
1990	41	150	17	60	15	54	9	31	0	0	82	295
1991	46	196	19	79	15	69	10	41	0	0	90	385
1992	51	247	20	99	17	86	10	51	0	0	98	483
1993	26	273	11	110	9	95	5	56	0	0	51	534
1994	28	301	10	120	9	104	5	61	0	0	52	586
1995	27	328	11	131	9	113	6	67	0	0	53	639
1996	28	356	11	142	9	122	6	73	0	0	54	693
1997	28	384	11	153	9	131	6	79	0	0	54	747

TABLE 12

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

INFANTS AND CHILDREN												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	0	0	0	0	0	0	0	0	1	1
1986	1	2	1	1	0	0	0	0	0	0	2	3
1987	2	4	2	3	0	0	0	0	0	0	4	7
1988	3	7	2	5	1	1	0	0	0	0	6	13
1989	4	11	3	8	1	2	0	0	0	0	8	21
1990	5	16	3	11	1	3	0	0	0	0	9	30
1991	6	22	4	15	1	4	0	0	0	0	11	41
1992	7	29	5	20	2	6	0	0	0	0	14	55
1993	3	32	3	23	1	7	0	0	0	0	7	62
1994	3	35	3	26	1	8	0	0	0	0	7	69
1995	4	39	3	29	1	9	0	0	0	0	8	77
1996	4	43	3	32	1	10	0	0	0	0	8	85
1997	5	48	3	35	1	11	0	0	0	0	9	94

TABLE 13

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

ALL PERSONS												
YEAR	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
ENDING	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	2	2	0	0	0	0	0	0	0	0	2	2
1981	8	10	0	0	1	1	0	0	0	0	9	11
1982	44	54	2	2	4	5	0	0	1	1	51	62
1983	136	190	7	9	10	15	1	1	1	2	155	217
1984	349	539	24	33	25	40	3	4	0	2	401	618
1985	728	1267	52	85	64	104	9	13	1	3	854	1472
1986	1251	2518	101	186	128	232	24	37	5	8	1509	2981
1987	1645	4163	148	334	180	412	36	73	10	18	2019	5000
1988	1905	6068	216	550	217	629	62	135	12	30	2412	7412
1989	2214	8282	280	830	270	899	61	196	9	39	2834	10246
1990	2419	10701	322	1152	282	1181	57	253	24	63	3104	13350
1991	2504	13205	352	1504	292	1473	80	333	28	91	3256	16606
1992	2517	15722	362	1866	330	1803	87	420	30	121	3326	19932
1993	1116	16838	185	2051	161	1964	38	458	7	128	1507	21439
1994	1054	17892	186	2237	156	2120	38	496	7	135	1441	22880
1995	983	18875	188	2425	149	2269	38	534	7	142	1365	24245
1996	913	19788	186	2611	141	2410	37	571	7	149	1284	25529
1997	847	20635	182	2793	131	2541	37	608	7	156	1204	26733

TABLE 14

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

ALL PERSONS BY RISK GROUP									
GAY / BISEXUAL MEN					OTHER IDUs				
YEAR ENDING	NON-IDUs		IDUs			HETEROSEXUAL MEN		WOMEN	
	BY YR	CUMUL.	BY YR	CUMUL.		BY YR	CUMUL.	BY YR	CUMUL.
1980	2	2	0	0		0	0	0	0
1981	8	10	1	1		0	0	0	0
1982	48	58	3	4		0	0	0	0
1983	131	189	23	27		0	0	0	0
1984	325	514	69	96		2	2	0	0
1985	706	1220	122	218		8	10	2	2
1986	1272	2492	181	399		19	29	6	8
1987	1721	4213	198	597		42	71	12	20
1988	2051	6264	209	806		73	144	20	40
1989	2416	8680	210	1016		103	247	29	69
1990	2619	11299	221	1237		136	383	37	106
1991	2728	14027	210	1447		169	552	48	154
1992	2748	16775	212	1659		199	751	55	209
1993	1209	17984	93	1752		115	866	32	241
1994	1134	19118	87	1839		126	992	35	276
1995	1046	20164	80	1919		139	1131	39	315
1996	963	21127	74	1993		144	1275	41	356
1997	878	22005	68	2061		152	1427	43	399

TABLE 15

PERSONS DIAGNOSED WITH AIDS IN SAN FRANCISCO THROUGH 1997

ALL PERSONS BY RISK GROUP (cont'd.)						
YEAR ENDING	OTHER ADULTS / ADOLESCENTS				INFANTS / CHILDREN	
	HETEROSEXUAL MEN		WOMEN			
	BY YR	CUMUL.	BY YR	CUMUL.	BY YR	CUMUL.
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	1	1	0	0	0	0
1984	4	5	1	1	0	0
1985	11	16	4	5	1	1
1986	20	36	9	14	2	3
1987	27	63	15	29	4	7
1988	33	96	20	49	6	13
1989	40	136	28	77	8	21
1990	47	183	35	112	9	30
1991	50	233	40	152	11	41
1992	53	286	45	197	14	55
1993	27	313	24	221	7	62
1994	26	339	26	247	7	69
1995	26	365	27	274	8	77
1996	26	391	28	302	8	85
1997	25	416	29	331	9	94

	GAY/BISEXUAL MEN: NON-IDUs											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
1980	2		0		0		0		0		2	
1981	10		0		1		0		0		11	
1982	36		2		3		0		0		41	
1983	106		5		9		1		1		122	
1984	287		17		23		3		0		330	
1985	650		34		58		9		1		752	
1986	1255		78		126		22		5		1486	
1987	2045		134		210		43		12		2444	
1988	2870		221		292		88		15		3486	
1989	3803		330		404		96		12		4645	
1990	4753		416		476		101		48		5794	
1991	5545		485		567		158		54		6809	
1992	6136		546		714		199		79		7674	
1993	5496		581		706		173		30		6986	
1994	5012		561		670		169		29		6441	
1995	4594		544		639		165		29		5971	
1996	4222		528		611		161		28		5550	
1997	3878		512		583		156		28		5157	

TABLE 17

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

1998-2-19-12

GAY/BISEXUAL MEN: IDUs						
YEAR ENDING	WHITE	AFR.-AM.	LATINO	ASIAN	NAT. AM	ALL
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	2	0	0	0	0	2
1983	21	1	0	0	0	22
1984	56	4	1	0	0	61
1985	111	12	5	0	0	128
1986	191	20	13	3	1	228
1987	237	26	21	2	2	288
1988	267	53	32	5	3	360
1989	313	71	49	5	6	444
1990	369	85	66	4	7	531
1991	401	108	63	7	16	595
1992	414	93	71	7	5	590
1993	397	55	73	3	9	537
1994	359	51	73	3	9	495
1995	326	48	73	3	9	459
1996	298	45	72	3	9	427
1997	271	42	72	2	9	396

TABLE 18

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

GAY/BISEXUAL MEN: ALL											
YEAR ENDING	WHITE	AFR.-AM.	LATINO	ASIAN	NAT. AM	ALL					
1980	2	0	0	0	0	2					
1981	10	0	1	0	0	11					
1982	38	2	3	0	0	43					
1983	127	6	9	1	1	144					
1984	343	21	24	3	0	391					
1985	761	46	63	9	1	880					
1986	1446	98	139	25	6	1714					
1987	2282	160	231	45	14	2732					
1988	3137	274	324	93	18	3846					
1989	4116	401	453	101	18	5089					
1990	5122	501	542	105	55	6325					
1991	5946	593	630	165	70	7404					
1992	6550	639	785	206	84	8264					
1993	5893	636	779	176	39	7523					
1994	5371	612	743	172	38	6936					
1995	4920	592	712	168	38	6430					
1996	4520	573	683	164	37	5977					
1997	4149	554	655	158	37	5553					

TABLE 19

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

INJECTION DRUG USERS: HETEROSEXUAL MEN											
YEAR ENDING	WHITE	AFR.-AM.	LATINO	ASIAN	NAT. AM	ALL					
1980	0	0	0	0	0	0					
1981	0	0	0	0	0	0					
1982	0	0	0	0	0	0					
1983	0	0	0	0	0	0					
1984	1	1	0	0	0	2					
1985	2	3	2	0	0	7					
1986	6	9	4	0	0	19					
1987	15	21	10	0	0	46					
1988	37	44	17	0	2	100					
1989	62	72	35	0	0	169					
1990	97	106	35	1	0	239					
1991	140	139	42	4	0	325					
1992	205	184	55	3	0	447					
1993	215	170	48	4	0	437					
1994	229	169	41	5	0	444					
1995	252	172	35	6	0	465					
1996	277	177	28	7	0	489					
1997	306	181	20	9	0	516					

TABLE 20

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

	INJECTION DRUG USERS: WOMEN											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
1980	0		0		0		0		0		0	
1981	0		0		0		0		0		0	
1982	0		0		0		0		0		0	
1983	0		0		0		0		0		0	
1984	0		0		0		0		0		0	
1985	1		1		0		0		0		2	
1986	3		2		0		0		0		5	
1987	6		6		1		0		0		13	
1988	10		14		3		1		0		28	
1989	18		23		4		2		0		47	
1990	25		32		6		2		1		66	
1991	33		44		9		3		1		90	
1992	46		61		12		4		1		124	
1993	46		59		11		4		1		121	
1994	46		60		12		4		1		123	
1995	49		63		12		4		1		129	
1996	50		67		13		5		1		136	
1997	53		71		14		5		1		144	

TABLE 21

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

	INJECTION DRUG USERS: ALL											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
1980	0		0		0		0		0		0	
1981	0		0		0		0		0		0	
1982	0		0		0		0		0		0	
1983	0		0		0		0		0		0	
1984	1		1		0		0		0		2	
1985	3		4		2		0		0		9	
1986	9		11		4		0		0		24	
1987	21		27		11		0		0		59	
1988	47		58		20		1		2		128	
1989	80		95		39		2		0		216	
1990	122		138		41		3		1		305	
1991	173		183		51		7		1		415	
1992	251		245		67		7		1		571	
1993	261		229		59		8		1		558	
1994	275		229		53		9		1		567	
1995	301		235		47		10		1		594	
1996	327		244		41		12		1		625	
1997	359		252		34		14		1		660	

TABLE 22

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

	OTHER ADULTS/ADOLESCENTS: HETEROSEXUAL MEN											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
1980	0		0		0		0		0		0	
1981	0		0		0		0		0		0	
1982	0		0		0		0		0		0	
1983	1		0		0		0		0		1	
1984	2		1		1		0		0		4	
1985	6		2		2		1		0		11	
1986	10		4		5		3		0		22	
1987	19		6		8		4		0		37	
1988	28		9		11		7		0		55	
1989	38		13		16		9		0		76	
1990	47		17		20		12		1		97	
1991	59		20		24		14		1		118	
1992	69		24		29		17		1		140	
1993	65		22		27		15		1		130	
1994	61		21		26		15		1		124	
1995	59		21		25		14		1		120	
1996	58		20		24		14		1		117	
1997	56		19		24		14		1		114	

	OTHER ADULTS/ADOLESCENTS: WOMEN											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
1980	0		0		0		0		0		0	
1981	0		0		0		0		0		0	
1982	0		0		0		0		0		0	
1983	0		0		0		0		0		0	
1984	1		0		0		0		0		1	
1985	2		1		1		0		0		4	
1986	5		2		1		1		0		9	
1987	9		4		2		2		0		17	
1988	16		8		4		3		0		31	
1989	25		12		6		4		0		47	
1990	33		15		9		6		0		63	
1991	43		20		11		8		0		82	
1992	56		26		14		10		0		106	
1993	53		25		14		9		0		101	
1994	52		25		14		9		0		100	
1995	53		25		14		9		0		101	
1996	54		25		14		10		0		103	
1997	55		26		14		10		0		105	

	OTHER ADULTS/ADOLESCENTS: ALL											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
1980	0		0		0		0		0		0	
1981	0		0		0		0		0		0	
1982	0		0		0		0		0		0	
1983	1		0		0		0		0		1	
1984	3		1		1		0		0		5	
1985	8		3		3		1		0		15	
1986	15		6		6		4		0		31	
1987	28		10		10		6		0		54	
1988	44		17		15		10		0		86	
1989	63		25		22		13		0		123	
1990	80		32		29		18		1		160	
1991	102		40		35		22		1		200	
1992	125		50		43		27		1		246	
1993	118		47		41		24		1		231	
1994	113		46		40		24		1		224	
1995	112		46		39		23		1		221	
1996	112		45		38		24		1		220	
1997	111		45		38		24		1		219	

TABLE 25

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

	INFANTS AND CHILDREN											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM			ALL
1980	0		0		0		0		0			0
1981	0		0		0		0		0			0
1982	0		0		0		0		0			0
1983	0		0		0		0		0			0
1984	0		0		0		0		0			0
1985	0		0		0		0		0			0
1986	1		1		0		0		0			2
1987	2		2		0		0		0			4
1988	4		3		1		0		0			8
1989	6		5		1		0		0			12
1990	8		6		2		0		0			16
1991	10		8		2		1		0			21
1992	13		11		3		1		0			28
1993	12		10		3		1		0			26
1994	11		10		3		1		0			25
1995	12		10		3		1		0			26
1996	13		10		3		1		0			27
1997	13		11		3		1		0			28

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

	ALL PERSONS											
YEAR ENDING	WHITE		AFR.-AM.		LATINO		ASIAN		NAT. AM		ALL	
1980	2		0		0		0		0		2	
1981	10		0		1		0		0		11	
1982	38		2		3		0		0		43	
1983	128		6		9		1		1		145	
1984	347		23		25		3		0		398	
1985	772		53		68		10		1		904	
1986	1471		116		149		29		6		1771	
1987	2333		199		252		51		14		2849	
1988	3232		352		360		104		20		4068	
1989	4265		526		515		116		18		5440	
1990	5332		677		614		126		57		6806	
1991	6231		824		718		195		72		8040	
1992	6939		945		898		241		86		9109	
1993	6284		922		882		209		41		8338	
1994	5770		897		839		206		40		7752	
1995	5345		883		801		202		40		7271	
1996	4972		872		765		201		39		6849	
1997	4632		862		730		197		39		6460	

PERSONS LIVING WITH AIDS IN SAN FRANCISCO THROUGH 1997

ALL LIVING PERSONS BY RISK GROUP									
YEAR	GAY/BISEXUAL MEN		OTHER IDUs		OTHER ADULTS/ADOLESCENTS			CHILDREN	
ENDING	NON-IDUs	IDUs	HET. MEN	WOMEN		MEN	WOMEN		
1980	2	0	0	0		0	0		0
1981	11	0	0	0		0	0		0
1982	41	2	0	0		0	0		0
1983	122	22	0	0		1	0		0
1984	330	61	2	0		4	1		0
1985	752	128	7	2		11	4		0
1986	1486	228	19	5		22	9		2
1987	2444	288	46	13		37	17		4
1988	3486	360	100	28		55	31		8
1989	4645	444	169	47		76	47		12
1990	5794	531	239	66		97	63		16
1991	6809	595	325	90		118	82		21
1992	7674	590	447	124		140	106		28
1993	6986	537	437	121		130	101		26
1994	6441	495	444	123		124	100		25
1995	5971	459	465	129		120	101		26
1996	5550	427	489	136		117	103		27
1997	5157	396	516	144		114	105		28



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